	Application No.	Applicant(s)
	10/634,219	RAWNICK ET AL.
Notice of Allowability	Examiner	Art Unit
	Hoang V. Nguyen	2821
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT REPORTED OF THE OFFICE OF ALLOWABILITY IS NOT A GRANT OF PATENT REPORTED OF THE OFFICE OF ALLOWABILITY IS NOT A GRANT OF PATENT REPORTED OF THE OFFICE OF THE OFFICE	(OR REMAINS) CLOSED in this apply or other appropriate communication IGHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. \boxtimes This communication is responsive to $\underline{communication\ filed\ c}$	on 19 January 2005.	
2. The allowed claim(s) is/are <u>1-22</u> .		
3. \boxtimes The drawings filed on <u>05 August 2003</u> are accepted by the	Examiner.	
 4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the same content of the same con	son's Patent Drawing Review (PTO s Amendment / Comment or in the C .84(c)) should be written on the drawir	Office action of action of the back) of
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 11/8/04 4. ☐ Examiner's Comment Regarding Requirement for Deposit	6. ☐ Interview Summary Paper No./Mail Dat 08), 7. ☐ Examiner's Amendr	ie
of Biological Material	9.	
HOANG V. NGUYEN PRIMARY EXAMINER		

Application Number: 10/634,219

Art Unit: 2821

Response to Arguments

1. Applicant's arguments, filed on 19 January 2005, with respect to claims 1-10, 12-16 and 18-22 have been fully considered and are persuasive. The 35 USC 102 (e) rejections of claims 1-10, 12-16 and 18-22 have been withdrawn.

Allowable Subject Matter

- 2. Claims 1-22 are allowed.
- 3. The following is an examiner's statement of reasons for allowance:

Regarding claim 1, none of the prior art, either taken alone or in combination, fairly teaches or suggests a selectable sub-reflector antenna system comprising a main reflector; a sub-reflector disposed apart from the main reflector and having at least one cavity; at least one fluidic dielectric having a permittivity and a permeability; at least one composition processor for dynamically changing a composition of the fluidic dielectric to vary at least one of the permittivity and the permeability in the at least one cavity; and a controller for controlling the composition processor to selectively vary at least one of the permittivity and permeability in the at least one cavity.

Claims 2-11 are allowed for depending on claim 1.

Regarding claim 12, none of the prior art, either taken alone or in combination, fairly teaches or suggests a selectable sub-reflector antenna system comprising a main reflector; a sub-reflector disposed apart from the main reflector and having at least one cavity; at least one fluidic dielectric having a permittivity and a permeability; and at least one fluidic pump for moving the

Application Number: 10/634,219

Art Unit: 2821

at least one fluidic dielectric among at least one cavity and a reservoir for adding and removing the fluidic dielectric to the at least one cavity in response to a control signal.

Claims 13-17 are allowed for depending on claim 12.

Regarding claim 18, none of the prior art, either taken alone or in combination, fairly teaches or suggests a method for selectively activating a sub-reflector in a reflector antenna system comprising the steps of reflecting a first radiated signal from the sub-reflector from a first source toward a main reflector in a first mode wherein the sub-reflector is activated using at least a fluidic dielectric; and transmitting a second radiated signal through the sub-reflector from a second source toward the main reflector in a second mode wherein the sub-reflector is inactivated at least in part by changing the fluidic dielectric.

Claims 19-22 are allowed for depending on claim 18.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Correspondence

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoang V. Nguyen whose telephone number is (571) 272-1825. The examiner can normally be reached on Mondays-Fridays from 9:00 a.m. to 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoang Nguyen can be reached on (571) 272-1825. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application Number: 10/634,219

Art Unit: 2821

6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hvn 2/25/05

HOANG V. NGUYEN PRIMARY EXAMINER